

USSR/Atomic and Molecular Physics - Physics of the Atom, D-1

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 34268

Author: Glembotskiy, I. I., Strotzkite, T. D., Iucis, A. P.

Institution: None

Title: The Fok Self-Consistent Field for the Double Ion of Nitrogen

Original Periodical: Lietuvos TSR mokslu akad. darbai, 1956, B2, 11-14; Lithuanian
résumé

Abstract: Solutions of the equations of the self-consistent Fok field are given for the basic configuration of the doubly-ionized atom of N. With the aid of these solutions the total energy is determined both in the single-configuration as well as in the double-configuration approximation. The theoretical results are compared with the experimental data.

1 OF 1

- 1 -

SI RDP86A0100

USSR/Atomic and Molecular Physics - Atomic Physics

D-1

Abs Jour : Ref Zhur - Fizika, No 4, 1957, No 8926

Author : Strotzkite, T.D., Glembotskiy, I.I., Yutsis, A.P.

Inst : Vil'nius University

Title : The Fock Self-Consistent Field for the Positive Ion of Nitrogen

Orig Pub : Tr. AN Lit. SSR, 1956, B3, 3-10

Abstract : The equations of the Fock self-consistent field are solved for a singly ionized atom of nitrogen. To construct the initial wave functions the authors employ the differences between the functions of the different states of neighboring atoms. The values of the total energy in the one and two configuration approximation are determined. The latter approximation improves the theoretical value of the energy by hundredths of atomic units.

Card : 1/1

S/020/60/135/006/011/037
B019/B056

AUTHORS: Vizbarayte, Ya. I., Strotksite, T. D., and Yutsis, A. P.,
Academician of the AS Litovskaya SSR

TITLE: Generalized Hartree-Fok Methods

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 135, No. 6,
pp. 1358-1360

TEXT: That improvement of the quantum-mechanical calculation of an atom
is called multiconfiguration approximation, in which the wave function of
the entire atom is expressed in the form $\Psi = N \sum_i \lambda_i \Psi_i$ (1), where Ψ_i is the
wave function of the whole atom, λ_i is a factor determined by the varia-
tional principle, and N denotes a normalization factor. If Fok's varia-
tional method is applied to (1), equations of the generalized Fok method
of the selfconsistent field or Fok equations in multiconfiguration ap-
proximation will be obtained. The transition from the solutions of the

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Generalized Hartree-Fok Methods

S/020/60/135/C06/011/037
B019/B056

✓

Hartree equation to such of the Fok equation is already an improvement, a further being the transition from the solutions of the ordinary Fok equations to such of the generalized Fok equations. From studying publications dealing with the generalized Fok method, the authors come to the conclusion that the solutions of equations of the generalized Fok method depend only slightly on the type of coupling. The independence of the Hartree methods of the type of coupling is caused by the use of a wave function of the whole atom as a variation. The authors suggest using solutions of the generalized Hartree equations in second configuration approximation. There are 12 references: 10 Soviet and 2 British.

ASSOCIATION: Institut fiziki i matematiki Akademii nauk LitSSR (Institute of Physics and Mathematics of the Academy of Sciences Litovskaya SSR)

SUBMITTED: November 1, 1960

Card 2/2

VIZBARAYTE, Ya. I.[Vizbaraitė, J.]; STROTSKITE, T. D.[Strockytė, T.]; YUTSIS,
A. P.[Jučys, A.], akademik

Concerning the construction of the generalized Hartree method. Liet
ak darbai no. 3:19-26 '61.

1. Institut fiziki i matematiki Akademii nauk Litovskoy SSR.

S/051/62/012/002/001/020
EO32/E514

24, 34-60

AUTHORS: Yutsis, A.P., Vizbarayte, Ya. I., Strotzskite, T.D.
and Bandzaytis, A.A.

TITLE: On the multi-configurational approximation and its convergence.

PERIODICAL: Optika i spektroskopiya, v.12, no.2, 1962, 157-162

TEXT: The mathematical basis of the multi-configurational approximation is the generalised Ritz method in which both the coefficients of the basic functions and the functions themselves are varied at the same time. The basic functions determined in this way ensure the rapid convergence of the method. Any departure from such functions reduces the degree of convergence. The present authors show that the sum of the energy corrections obtained by separate 2-configurational approximations in the case of helium-type atoms is equal to the total correction, provided the equivalent electron configurations are used as the correction configurations. In the case of beryllium-type atoms the sum of the corrections for separate shells gives the correction for the entire atom on the multi-configurational

Card 1/2

On the multi-configurational ...

S/051/62/012/002/001/020
E032/E514

approximation. Approximate calculations for helium- and beryllium-type atoms showed that the multi-configurational approximation based on the generalised Ritz method gives rapid convergence of the wave functions and of the energy to the eigenfunctions and the eigenvalues of the Schrödinger equation. The possibilities of the method are indicated by Table 1 which gives the energies for helium-type atoms (in atomic units).

Table 1

	H ⁻	He	Li ⁺	Be ⁺⁺
a	-0.489	-2.862	-7.236	-13.611
b	-0.526	-2.903	-7.278	-13.653
c	-	-2.904	-7.280	-13.657

In this table the first line refers to the self-consistent field method and the one-configurational approximation, the second line includes the correction for the multi-configurational approximation, and the third line gives the experimental results. There are 2 tables.

SUBMITTED: February 4, 1961
Card 2/2

STROTSKIY, G. N. and NECHAY, A. M.

"Utilization of Radioactive Isotopes in the Oil Fields of the Grozneft' ~~XXX~~
Association," Utilization of Radioactive Isotopes & Emanations in the Petroleum
Industry (Symposium), Min. Petroleum Industry USSR, 1957.

Results of the Joint Session of the Technical Council of Min of the Petroleum
Industry USSR and Soviet Sci and Technical Association, Moscow 14-19 Mar 1956.

~~SECRET~~ b.1, M
STROTSKIY, G.N.

Use of NBPI-type explosives at elevated temperatures for well
shooting and earthmoving. Razved.i prom.grofiz.no.17:102-104 '57.
(MIRA 10:12)

(Oil wells) (Explosives)

STROTSKIY, G.N.; RAMM, G.M.

Controlling directional well drilling using bottom-hole
inclinometers lowered into diamagnetic pipes. Neft. khoz. 36
no.5:14-18 My '58. (MIRA 11:6)
(Inclinometer) (Oil well drilling)

PHASE I BOOK EXPLANATION

SOV/4893

Vsesoyuznoye soveshchaniye po fizike, fiziko-khimicheskim svoystvam
Ferritov i fizicheskim ogranicheniyam ikh primeneniya. 3d, Minsk, 1959
(Ferrites: Physical and Physicochemical Properties. Doklady
(Physical and Mathematical Sciences, M. N. Smolentsev, Candidate of
Minsk, Izd-vo AN BSSR, 1960. 655 p. Errata slip inserted.
4,000 copies printed.

Sponsoring Agency: Nauchnyy sovet po radiofizike AN BSSR. Odzal
fiziki tverdogo tela i poluprovodnikov AN BSSR.

Editorial Board: Resp. Ed.: N. N. Sirota, Academician of the
Academy of Sciences BSSR; K. P. Belav, Professor; Ye. I. Kondratenko,
sky, Professor; K. M. Polivanov, Professor; R. V. Telenin, Pro-
fessor; G. A. Smolenets, Professor; N. N. Shol'ts, Candidate of
Physical and Mathematical Sciences; G. M. Smolyarenko and
L. A. Bashkov, Eds. of Publishing House; S. Khodatavskiy, Tech.
Ed.; I. Volochanovich.

PURPOSE: This book is intended for physicists, physical chemists,
radio electronics engineers, and technical personnel engaged in
the production and use of ferromagnetic materials. It may also
be used by students in advanced courses in radio electronics,
physics, and physical chemistry.

COVERAGE: The book contains reports presented at the Third All-
Union Conference on Ferrites held in Minsk, Belarusian SSR.
The reports deal with magnetic transformations, electrical and
galvanomagnetic properties of ferrites, studies of the growth
of ferrite single crystals, problems of the chemical and physico-
chemical analysis of ferrites, studies of ferrites having
rectangular hysteresis loops and multicomponent ferrite systems
exhibiting spontaneous magnetization, problems in magnetic
attraction, highly coercive ferrites, magnetic spectroscopy,
ferromagnetic resonance, magneto-optics, physical principles of
using ferrite components in electrical circuits, anisotropy of
electrical and magnetic properties, etc. The Committee on Mag-
netism, USR (S. V. Voronavskiy, Chairman) organized the con-
ference. References accompany individual articles.

Ferrites (Cont.)

SOV/4893

Permaline, T. M., and A. A. Aikochenakiy. Investigation of the Ferrimagnetic Resonance of a Cobalt Ferrite in an Internal Field of Anisotropy	501
Zygarov, P. S., T. G. Izumruanova, and G. V. Skrotckiy. The Properties of Electronic Paramagnetic Resonance on the Optical Properties of Ferrimagnetic and Paramagnetic Dielectrics	505
Izumruova, Yu. A., and G. V. Skrotckiy. Magnetic Spin Resonance in Conduction Electrons in Alkali and Ferro- magnetic Metals	513
Kotlyukov, Yu. N., and A. N. Burmistrov. The Effect of Anisotropy on Elastic Strain on Ferrimagnetic Resonance Absorption in Nickel Ferrite	519
Gubashina, Z. M., V. A. Pablikov, and V. D. Kudryavtsev. Temperature Characteristics of Ferrite Components in SIP Devices	522

Card 1548

Card 4/18

STROUFE, OLDRITCH

Hoffmann degradation of quaternary bases with bridge-head nitrogen. I. 1-Methylguanidinium hydroxide. Rudolf Lukes, Oldřich Štrouf, and Miroslav Ferles (Tech. Univ. Prague). Čas. Lékař. Akad. ČSSR, 50, 1024-0 (1965). Quinuclidine (I) was prepd. by reducing 23 g. 4-(2'-hydroxyethyl)-dime (II) with Na in EtOH, hydrogenating the resulting pyridine (II) with Na in EtOH, hydrogenating the resulting mixt. (19 g.) of 4-(2'-hydroxyethyl)piperidine and 4-(2'-hydroxyethyl)-1,2,5,6-tetrahydropyridine, treating the hydroxyethyl-1,2,5,6-tetrahydropyridine, treating the product with HBr to give 97.7% 4-(2'-bromoethyl)piperidine-HBr, which, on heating with dil. NaOH, yielded 68.3% I. An alternative synthesis of I proceeded as follows: $\text{CH}(\text{CH}_2\text{CH}_2\text{OH})_2$ (III) was obtained in 7-g. yield by dropping an Et₂O soln. of 12.5 g. $\text{CH}(\text{CH}_2\text{CO}_2\text{Me})_2$ into 8.82 g. LiAlH₄ in 300 ml. Et₂O, refluxing the mixt. 6 hrs., adding 8.8 ml. H₂O, 8.8 ml. 15% NaOH, and 23.4 ml. H₂O, extg. the pptd. material 15 hrs. with EtOH in a Soxhlet app. and satg. the ext. with CO₂, and distg. *in vacuo* to give III, b.p. 190-2°; an expt. in which the reaction mixt. was decomposed with dil. H₂SO₄ (pH 5) gave 4-(2'-hydroxyethyl)tetrahydropyran, b.p. 104-6°. III (7 g.) in 155 ml. AcOH contg. 30% HBr was heated 2 hrs. to 85-95° in a glass autoclave to give 6.8 g. $\text{CH}(\text{CH}_2\text{CH}_2\text{Br})_2$, b.p. 133-5°, which, on heating in autoclave with 175 ml. 15% NH₄OH-MeOH 1 hr. to 140-60° and 3 hrs. to 170° (40 atm.), and purifying the product by pptn. and steam distn., gave I, isolated as 2.16 g. picrate, m.p. 276-7° (from EtOH). 1-Methylguanidinium hydroxide, obtained by leaving mixt. of 9 g. I with 9 ml. MeI in Et₂O overnight and treating the resulting 5.9 g. iodomethylate, m.p. 357-8°, with Ag₂O, was heated with satd. Ba(OH)₂ to 350° to give, on fractional distn. and chromatography on Al₂O₃, 1-methyl-4-vinylpiperidine, (picrate, m.p. 145-6°, from EtOH), 1-methyl-4-(2'-hydroxyethyl)piperidine (IV), b.p. 92-5° (picrate, m.p. 152°, from EtOH), and I.

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Lukes, Rudolf - Strouf --

by heating 10 g. $\text{CH}(\text{CH}_3\text{CO}_2\text{H})_2$, with 6 ml. 30% aq. MeNH_2 , to give 9 g. *t*-methyl-4-carboxymethyl-2,6-dioxopiperidine (V), m. 87-9°, b.p. 210-22°. A tetrahydrofuran soln. of 9 g. V treated with an Et_2O soln. of CH_3N_2 under cooling gave 8 g. *t*-methyl-4-carbomethoxymethyl-2,6-dioxopiperidine, E, 146-9°, m. 62.5-3°, which, on reduction with LiAlH_4 in Et_2O followed by boiling on a water bath 19 hrs, and decompg. with H_2O and 15% NaOH , yielded 44-57% IV, b.p. 123-5°.

L.I.U.

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JM
L.S.

STROUT, OLDFRICH

Hofmann degradation of quaternary bases having a bridgehead nitrogen. II. Degradation of the methohydroxide of 7-methyl-1-azabicyclo[1.2.2]heptane. Rudolf Lukeš, Oldřich Strout, and Miloslav Fertl's (Vysoká škola chem.-technol., Praha). *Czech. listy* 51, 933-6 (1957); cf. *C.A.* 51, 2779c.—Hofmann degradation of 7-methyl-1-azabicyclo[1.2.2]heptane (**I**) gave 1-methyl-4-vinylpiperidine (**II**) whose structure was proved by infrared spectroscopy and by transformation to 1-methyl-4-ethylpiperidine (**III**). Conditions for the fission of heterocyclic systems having nitrogen at the bridgehead were discussed. Treating 4-acetylpyridine (**IV**), m. 15.5°, with a 300% excess of MeBr in EtOH 4 days at room temp. gave 96.9% methobromide (**V**) of **IV**, m. 183-4° (from EtOH). Hydrogenation of 29.5 g. **V** in MeOH over 0.148 g. PtO₂ at 1050 mm. and 19° gave, in a quant. yield, HBr salt of 1-methyl-4-(1-hydroxyethyl)piperidine (**VI**), m. 144-5° (from EtOH); free base, liberated with KOH and extd. with Et₂O, b.p. 111-12°, d₄ 0.9559, n_D²⁰ 1.4736; picrate, m. 177.5-8° (from EtOH). Heating 6.9 g. **VI** in 35 ml. azeotropic HBr, sarg. the soln.

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CZECHOSLOVAKIA/Organic Chemistry Synthetic Organic Chemistry. G-2

Abs Jour: Ref Zhur-Khim , No 24, 1958, 81674

Author : Lukes R , Strouf O , Ferles M.

Inst :

Title : The Hoffman's Cleavage of Bicyclic Bases Containing
Nitrogen in the Side Radicals. II. The Splitting of
the Oxymethylate of 7-methyl-1-azabicyclo (1.2.2)
heptane.

Orig Pub: Collect. czechosl chem commun , 1958, 23, No 2. 326-330.

Abstract: See R. Zh Khim , 1958, 36216.

Card : 1/1

SIRGUF, O.; LUKES, V.; FOMLES, M.

"Nofmann degradation of bicyclic bases with nitrogen on the border of ring S"
III. Degradation of methohydroxide of 7-methyl-1-aza-bicyclo-(1,2,2)-heptane.
In: *Chemia*, p. 31.

COLLECTION OF CZECHOSLOVAK CHEMICAL COMMUNICATIONS, Praha, Czech.,
Vol. 24, No. 1, Jan. 1959

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 6, Sept. 59
Unclassified

TROJANEK, J.; STROUF, O.; KAVKOVA, K.; CEKAN, Z.

Alkaloids. III. New alkaloids from Vinca minor L. evergreen. Coll Cz
Chem 25 no.8:2045-2048 Ag '60. (EEAI 10:9)

1. Forschungsinstitut fur Heilpflanzen, Prag.

(Alkaloids) (Vinca minor) (Evergreens)

TROJANEK, J.; KAVKOVA, K.; STROUF, O.; CEKAN, Z.

On alkaloids. IV. Isolation of vincin, a new alkaloid, from *Vinca minor* L. Coll Cz Chem 26 no.3:867-873 Mr '61.
(EEAI 10:9)

1. Forschungsinstitut fur Natur-Arzneimittel, Prag.

(*Vinca minor*) (Alkaloids)

TROJANEK, J.; STROUF, O.; KAVKOVA, K.; CEKAN, Z.

On alkaloids. Part 6: Vincaminine and vincinine, two new
alkaloids from Vinca minor L. Coll Cz Chem 27 no.12:2801-2807
D '62.

1. Forschungsinstitut fur Natur-Arzneimittel, Prag.

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653610007-2

Tobacco, Inc., WILMINGTON, DE, 19802 U.S.A.

On alkaloids. (See Soil Chem 29: 152-157, 1978)

S. Research Institute for Natural Drugs, Prague

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653610007-2"

TROJANEK, J.; STROUF, O.; BLAHA, K.; DOLEJS, L.; MANUS, V.

On alkaloids. Pt. 12. Coll Cz chem 29 no.8:1904-1912 Ag '64.

1. Research Institute for Natural Drugs, Prague, Institute of
Organic Chemistry and Biochemistry, and Institute of Physical
Chemistry, Czechoslovak Academy of Sciences, Prague.

STROUFOVA, A.

Isolation and certain chemical properties of growth factor from
animal material. Cesk. fysiol. 8 no.4:334-335 July 59.

1. Onkolovicky ustav, biochemicke odd., Praha.
(SOMATOTROPIN, chem.)

STROUGAL, Lubomir

Importance of a complex soil research in the Czechoslovak Socialist Republic. *Vestnik CSAZV* 8 no.6:322-331 '61. (EEAI 10:9)

1. Ministr zemedelstvi, lesniho a vodniho hospodarstvi.

(Soil research)

STROUHAL, E.

The use of the driving axle for tractor-trailers in agriculture. p.21.
(Beseda Venkovske Rodiny, Vol. 30, No. 1, Feb. 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accesssiors (EEAL) IC. Vol. 6, No. 9, Sept. 1957. Uncl.

SITROUKA, E.

Increasing the efficiency of uni- and biaxial trailers on difficult ground. p. 275.

Praha. Ceskoslovenska akademie zemedelskych ved. SBOUČEK, ZE. EDĚLSKÁ
TECHNICKA. Praha. Czechoslovakia. Vol. 5. no. 4/5 Aug. 1959

Monthly list of East European Accessions (EEAI) LC Vol. 9, no. 2
Feb. 1960. Uncl.

STROUHAL, E.

A convention of the Czechoslovak astronomers. p. 382

BIOLOGIA (Slovenska akademia vied)
Bratislava Czechoslovakia

Vol. 14, no. 5, 1959

Monthly list of East European Accessions (EEAI) LC. VOL. 9, no. 1 January 1960

Uncl.

STROUHAL, Evzen

The 1959 Czechoslovak Conference on Anthropology in Smolenice,
Biologia 15 no.2:156-157 '60. (EEAI 9:5)
(CZECHOSLOVAKIA--ANTHROPOLOGY)

STROUHAL, E.

Methods of assessing so-called bone age and their applications in
some children's groups. Cesk ~~radiogen~~. 16 no. 6: 369-379 D '62.

1. Vyzkumny ustav endokrinologicky v Praze, reditel doc. dr. K. Silink.
(BONE AND BONES) (GROWTH)

Stribrnický, František, inž.

Agricultural transportation plan in relation to complex mechanization.
zemědělské technika č. 3:259-264 Je '63.

I. Výzkumný ústav zemědělské techniky, Republika Československá.

COUNTRY : POLAND
CATEGORY : Cultivated Plants. Industrial, Oleiferous, Sugar. N
AES. JOUR. : RZekBiol., No. 23 1956, No. 104/767
AUTHOR : Strowski, A.
INST. :
TITLE : Velvet Sumac (*Rhus typhina* L.) - a tannin Plant.

ORIG. PUB. : Postepy nauk. roln., 1957, 4, No. 1, 119-122
ABSTRACT : Directions on the cultivation of sumac (*Rhus typhina* L.) and collection of the leaves which are the raw material for obtaining valuable tannin extract.

CARD:1/1

99

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EWT(d)/EED-2/EWP(1) Pg-4/Pg-4/Pk-4 IJP(c) BB/GG

2

ACCESSION NR: AP5015524

UR/0286/65/000/008/0064/0065

31
30
B

AUTHORS: Misulovin, L. Ya.; Auzin', V. Ya.; Maksimenko, N. A.; Lerner, Ye. L.;

Stroy, I. G.; Batura, S. E.; Shlyakhtina, D. A.

TITLE: Parallel-series shift register. Class 42, No. 170203

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 8, 1965, 64-65

TOPIC TAGS: shift register

ABSTRACT: This Author Certificate presents a parallel-series shift register having potential triggers with gates at the recording inputs. To decrease the number of storage units, the register contains basic registers for parallel information recording and one auxiliary register controlling the shift of information in the basic registers. The outputs of each preceding trigger are connected to the record gate inputs of the next (see Fig. 1 on the Enclosure). The second inputs of the zero record gates of the auxiliary register are connected to the input for the shift pulse series at output, the one record gates are connected to the input for the shift pulse series at recording. The second input of the record gate of each trigger of the basic register is connected to the zero output of the trigger of the auxiliary register with the same number. The numeration

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L 54550-65

ACCESSION NR: AP5015524

of the basic and auxiliary registers is opposite. Orig. art. has: 1 diagram.

ASSOCIATION: Gosudarstvennyy elektrotekhnicheskiy zavod VEF (State Electrical
Engineering Plant VEF)

SUBMITTED: 02Jan64

ENCL: 01

SUB CODE: DP

NO REF SOV: 000

OTHER: 000

Card 2/3

STROYENOV, V. B.; DENISENKO, N. V.; NEMCHENKO, E. A.

Determination of the fatigue properties of cord subjected
to flexing in a modernized apparatus of the type 5-24-1.
Khim. volok. no.6:31-34 '62. (MIRA 16:1)

1. Mytishchinskiy zavod (for Stroyenov). 2. Vsesoyuznyy nauchno-
issledovatel'skiy institut iskusstvennogo volokna (for Denisenko,
Nemchenko).

(Synthetic fabrics--Testing)

IVANOV, Yuryi Nikolayevich (1928-); STROYEV, A., red.; LYASNIKOVA, L.,
tekhn. red.

[Atlantic cruise] Atlanticheskii reis. Moskva, "Molodaia
gvardiia," 1963. 223 p.
(MIRA:16-12)
(Atlantic Ocean--Marine biology)

SHURTAKOV, Semen Ivanovich; STROYEV, A., red.

[Journey to the end of the world] Puteshestvie na krai
sveta. Moskva, Molodaia gvardiia, 1965. 253 p.
(MIRA 18:3)

SERIAL NO. 6.

VOLKOV, P.O., master; STROYEV, A.G., inzhener.

Laying asbestos-cement cable pipes under roads. Energetik 1 no. 3:18-19
Ag '53. (MLD 6:8)
(Electric conduits)

BOL'SHOV, Vladimir Mikhaylovich; STROYEV, A.P., red.; BUL'DYAYEV, N.A.,
tekhn. red.

[Adjustment of radio receivers] Nalazhivanie radiopriemnikov.
Moskva, Gosenergoizdat, 1963. 63 p. (Massovaia radiobibli-
teka, no.457) (MIRA 16:6)
(Radio--Receivers and reception)

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653610007-2

~~STRUYEV, A. S.~~

~~STRUYEV, A. S., BUDZINSKIY, O. Z., IVANOV, A. M. and FEDIN, B. V.~~

Institute of Aircraft Materials.

"Vacuum Arc Melting of Refractory Metals."

paper presented at Second Symposium on the Application of Vacuum Metallurgy.

1-6 May 1987 - Moscow

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653610007-2"

STROYEV A. S.

18(2)

PHASE II - ABSTRACTS

AB-1

Akademiya nauk SSSR. Institut metallurgii
Titan i ego splavy; metallurgiya i metallovedeniye (Titanium and Its
Alloys; Metallurgy and Physical Metallurgy) Moscow, Izd-vo AM
SSSR, 1958. 209 p. 4,000 copies printed.

Resp. Ed.: N.V. Ageyev, Corresponding Member, USSR Academy of Sciences;
Ed. of Publishing House: V.B. Rakhnikov; Tech. Ed.: A.A. Kiseleva.

INTRODUCTION: This book, of which a Phase I Exploitation (SOV/1200)
has been prepared, is a collection of scientific papers devoted to
the study of titanium and its alloys from three main points of view:
physical metallurgy, forming, and welding. Special problems in-
vestigated include structural changes occurring during welding, de-
termination of the content of harmful gases, development of indu-
trial methods of rolling, and oxidation at various temperatures.

PART I. PHYSICAL METALLURGY

Card 3448

Titanium and Its Alloys (Cont.)

AB-1

temperature lies between 970 and 1000° C. 3) When the transformation temperature lies below 970°, the alloy has greater ductility but less strength. In order to raise the ultimate strength to 100 kg/mm² (the minimum required under certain engineering conditions), the alloy must be subjected to additional heat treatment (heating for 1 hour at 750-800°, followed by cooling in air). 4) To increase the ductility of the alloy when its transformation temperature lies between 1010° and 1020° and when its elongation is a little below the minimum of 8 percent, the alloy must be heated additionally at 650-700° after normalization. 5) When the transformation temperature exceeds 1020° the ductility is so low that it cannot be increased sufficiently to meet engineering demands. 6) Tests made at 300, 400, 500, and 600° C for periods of 50, 100, 150, and 200 hr showed that VT-2 alloy undergoes aging at 500°, accompanied by a decrease in ductility. There are 4 figures, 2 tables, and 3 references (2 Soviet and 1 English).

Stroyev, A.S., Ye.N. Novikova (Ministry of the Aircraft Industry of the USSR) Increasing the Surface Hardness and Wear Resistance of Titanium Alloys by Means of Thermodiffusion Impregnation 107
Experiments were conducted in the impregnation of forged ti-

Card 23/43

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7/3

PHASE I BOOK EXPLOITATION

Card 6

533

Akademiya nauk SSSR. Institut metallurgii

Primeneniye vakuuma v metallurgii; trudy soveshchaniya po primeneniyu vakuuma v chernoy metallurgii (Use of Vacuum in Metallurgy; Transactions of a Conference on the Use of Vacuum in Ferrous Metallurgy) Moscow, Izd-vo AN SSSR, 1958. 165 p. 4,000 copies printed.

Resp. Ed.: Samarin, A.M., Corresponding Member of the USSR Academy of Sciences;
Ed. of Publishing House: Bankvitser, A. L.; Tech. Ed.: Polyakova, T. V.

PURPOSE: This publication is intended to familiarize metallurgists, engineers, and other scientific and industrial personnel with the processes and advantages of vacuum metallurgy and with its state of development in the Soviet Union.

COVERAGE: The transactions are grouped into three main sections: vacuum melting of steel and alloys, vacuum treatment of molten steel and ferroalloys in the ladle and in the ingot mold, and extraction of metals and alloys from ores in vacuum. In a brief introductory section, A.M. Samarin, Corresponding Member of the Academy of Sciences, USSR, concisely covers much of the basic material presented in more detailed form in the individual articles. A resolution adopted by the conference, which appears at the end of Part III, embodies

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vacuum refining of metal with the aid of substances like carbon and hydrogen, which form volatile compounds with certain addition agents. There are 6 references, of which 4 are Soviet, 1 is English and 1 German.

Yemyashev, A.V. Some Notes on the Technology of the Vacuum Melting of Metals and Alloys (Experience Gained in the Operation of a Vacuum Furnace for Refractory Metals)

The article is divided into the following sections: Brief description of the OKB-264A furnace; Operation of the furnace; Temperature measurement; Taking metal samples during the melting period; Method of preventing hanging of the charge. There is one English reference.

Stroyev, A.S., Ivanov, A.M. and Ovsepyan, Ye.S. Vacuum Melting of Molybdenum in an Electric Arc Furnace

62

Authors' conclusions: 1. High-vacuum melting of molybdenum in an electric arc furnace is feasible and yields metal of high purity. 2. Ingots of molybdenum melted in a vacuum of the order of 0.003 mm. of mercury and with proper deoxidation are free of defects in the central zone, regardless of the speed of cooling after melting.

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3. These ingots, thanks to a rather fine-grained structure and distinctness of grain boundaries, can be plastically deformed by any method, including smith forging, provided correct regimes of heating and degree of compression are observed. 4. Plastically deformed molybdenum exhibits satisfactory plasticity characteristics at room temperature.

Savinskiy, K.A. High-vacuum Pumps and Equipment

This is a discussion of the basis for selecting high-vacuum pumps and related equipment for use in vacuum metallurgy. It is shown mathematically that a system of large conductive capacity is essential for satisfactory performance in high-vacuum melting. There are 3 references, all Soviet.

66

Gurevich, Yu.G. (Address)

Gurevich describes experiments conducted at the Zlatoust Metallurgical Plant in 1952, which show that ingots of 1Kh18N9T steel that have been melted in a vacuum or in a protective atmosphere have a dense structure and good surface quality.

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STROYEV, A.S.; NOVIKOVA, Ye.N.

Increasing the surface hardness and the wear resistance of titanium
alloys by means of high temperature diffusion saturation. Titan
i ege splavy no. 1:107-113 '58. (MIRA 14:5)

1. Ministerstvo aviationsionnoy promyshlennosti SSSR.
(Titanium alloys--Hardening) (Case hardening)

51 Key A

24-53-5-58/38

AUTHOR: Solomonov, M.

TITLE: Conference on Shaping and Treatment of Heat-resistant Materials (Svoeobshchaniye po obrabotke zhareprochnykh materialov)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniya Tekhnicheskikh Nauk, 1958, Nr 3, pp 175-176 (USSR)

ABSTRACT: Institut mashinovedeniya and Komissiya po tekhnologii mashinostroyeniya Akademii Nauk SSSR (The Institute of Mechanical Engineering and the Commission on Engineering Technology, Academy of Sciences USSR) convened a conference held December 18-21, 1957. Over 300 delegates representing research establishments, design organizations and higher teaching establishments from various parts of the Soviet Union participated. In the plenary meeting the following papers were read: "Properties of heat-resistant alloys", by I. I. Kornilov and "The role of heat-resistant materials and the demands to be made by such materials in steam and gas turbine construction" by V. V. Uvarov. The main work was carried out in sectional meetings where over 35 papers were read. In the section on casting processes the following papers were read: "Crystallization and structure of ingots of high

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Conference on Shaping and Treatment of Heat-resistant Materials.

"temperature austenitic steels" (A.A. Popov, V.A. Mirmel'shteyn); "Improving the heat resistance of iron-nickel base heat resisting alloys" (A.S. Stryev and E.L. Larubina), "Low stability stainless ageing steels of the transient austenitic class and their heat treatment" (V.V. Sochnev); "Smelting of heat-resistant alloys of the type ZrS and problems of utilising cut-offs, etc." (K. Ya. Shiput); "On new methods of studying the microstructure and the properties of heat-resistant alloys at elevated temperatures" (M. G. Losinskiy); "Influence of supersonics on the properties of alloys" (G.I. Pegedin-Alekseyev and V.V. Zaboleev-Zopov); "Cast gas turbine runner blades" (F. V. Aksentyev); "Features of precision (lost wax) casting of components made of heat-resistant alloys" (B. S. Kurchman).

At the section on shaping by applying pressure the following papers were read: "Thermomechanical regime of shaping of high melting point heat-resistant molybdenum and chromium base alloys" (I.I. Korniyev, A.G. Shubarev, L.E. Pevzner); "Methods of mechanical work hardening of components of heat-resistant alloys" (I.V. Kiriyavtsev, B.I. Aleksandrov), "Stamping and drawing of components made of heat resistant sheet metal, using cooling to a very low temperature" (V. N. Revinov);

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24(8) PHASE I BOOK EXPLOITATION Sov/2117
 Sovetschiyanie po eksperimental'noy tekhnike i metodam vysokotemperaturnykh issledovanii, 1956

Eksperimental'naya tekhnika i metody issledovanii pri vysokikh temperaturakh: Trudy Sovetskoy konferentsii po eksperimental'nykh tekhnicheskikh metodakh issledovaniya metallov na vysokikh temperaturakh. Konferentsiya po eksperimental'nyim tekhnicheskim metodam issledovaniya metallov. Komissiya po fiziko-khimicheskym issledovaniyam SSSR. Institut metallovedeniia. AN SSSR. 1959. 1789 p. (Series: Khimicheskaya obozreniye. Institut metallovedeniia. Komissiya po fiziko-khimicheskym issledovaniyam SSSR) 2,200 copies printed.

Resp. Ed.: A.M. Samarin. Corresponding Member: A.I. Belyavtsev. Sciences; Ed. of Publishing House: A.I. Belyavtsev.

PURPOSE: This book is intended for metallurgists and metallurgical engineers.

COVERAGE: This collection of scientific papers is divided into six parts: 1) thermodynamic activity and kinetics of high-temperature processes; 2) constitution diagrams and kinetics of high-temperature of liquid metals and alloys; 3) physical properties of pure metals; 4) new analyses; 5) porosometry; and 6) general questions. For more specific coverage, see Table of Contents.

Strykov, A.S., Ye.S. Ovanesyan, and A.M. Ivanov. Arc Melting of Molybdenum in Vacuum 470
 The high degree of purity necessary for satisfactory deformation of molybdenum can be obtained in electric arc furnaces only with high vacua of the order of 10⁻³ mm Hg and with proper deoxidation. Ingots weighing up to 15 kg, made under these conditions, are free of defects in the central zone irrespective of the rate of cooling after melting. Because of their relatively fine grain structure and the distinctness of their grain boundaries, such ingots can be deformed by any method including hammer forging provided proper cooling and reduction conditions are adhered to. The deformed molybdenum exhibits satisfactory ductility characteristics at room temperature.

Pogol', A.A. Noncrucible Melting by the Induction-Melting Method 478

Berezin, A.B., and Yu.P. Stepanov. Production of High-purity Aluminum by Zonal Melting 489
 The method, based on the separation of elements during crystallization, makes it possible to obtain aluminum 99.9999 percent pure, but is at present very costly and time consuming.

Paton, B.Ye., B.I. Medvedev, V.Yu. Paton, Yu.V. Latash. New Method for Electrical Casting of Ingots 495
 The ingot is formed or melted from one or more melting electrodes. Card 18/32

PHASE I BOOK EXPLOITATION

SOV/4262

Akademiya nauk SSSR. Komissiya po tekhnologii mashinostroyeniya

Obrabotka zharoprochnykh splavov (Treatment of Heat-Resistant Alloys) Moscow,
Izd-vo AN SSSR, 1960. 231 p. 3,500 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Nauchnyy sovet po problemam zharoproch-
nykh splavov.

Resp. Ed.: V.I. Dikushin, Academician; Ed. of Publishing House: V.A. Kotov;
Tech. Ed.: V.V. Brizgul'.

PURPOSE: This collection of papers is intended to summarize current information
on the treatment of heat-resistant alloys with a view toward coordination fur-
ther research.

CCVERAGE: The book is a collection of papers presented at the Conference on Heat-
Resistant Alloys, held 18-21 December 1957 by the Commission on Machine-Con-
struction Technology of the Institut mashinovedeniya AN SSSR (Institute of
Machine Science, Academy of Sciences USSR). The thirty papers in the

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Treatment of Heat-Resistant Alloys

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collection deal with the casting, pressure working, welding, and cutting of heat-resistant alloys. No personalities are mentioned. References accompany several of the articles.

TABLE OF CONTENTS:

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Stroyev, A.S. and Ye L. Zarubina. Aluminizing of Type YALT, EI435, EI589, and EI415 High- and Low - Temperature Heat-Resistant and Scale-Resistant Steels to Improve Their Scale Resistance	14
Shpunt, K.Ya. Some Characteristic Features of the Manufacture of Nickel Alloys	21
Aksenov, F.V. Cast Blades for Gas Turbines	25
Korneyev, N.I., I.G. Skugarev, S.B. Pevzner, and Ye.I. Razuvayev. Thermomechanical Regime of Pressure Working of Molybdenum-and Chromium-Base Refractory Alloys	33
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PLATE I BOOK EXPLANATION

50V/2523

Akademiya Nauk SSSR. Kondensiya po fiziko-khimicheskim ocherkam proizvodstva stali pri menenii vakuum v metalurgii (Use of Vacuum in Metallurgy) Moscow, Izd-vo Akad. Nauk SSSR, 1960. 314 p. Errata slip inserted. ~1500 copies printed.

Sponsoring Agency: Akademika Nauk SSSR. Institut Metallicheskoi i metalloorganičeskoi khimii A.A. Berzina. Kondensiya po fiziko-khimicheskim ocherkam proizvodstva stali.

Edp. Ns.: A.M. Smirnij, Corresponding Member, Academy of Sciences USSR; Ed. of Publishing House: G.M. Matovskij; Tech. Ed.: S.G. Kurovskij.

PURPOSE: This collection of articles is intended for technicalized personnel interested in recent studies and developments of vacuum steelmaking practice and equipment.

CONTENTS: The book contains information on steel melting in vacuum induction furnaces, and vacuum arc furnaces, reduction processes in vacuum and deoxidizing of steel and alloys. The functioning of apparatus and equipment, especially vacuum furnaces and vacuum booster pumps is also analyzed. Permeabilities are mentioned in connection with some of the articles and will appear in the Table of Contents. Three articles have been translated from English. Some of the

Chapters L.I. V.N. Lebedev and I.S. Poljarev. Melting and Pouring of Metal-Based Alloys in Vacuum [V.I. Chashin, I.Y. Lazebnij, V.A. Ababkov, A.P. Balashov and V.V. Radchenko participated in the work] 23

Rubtsov, Yu. I., and M.I. Rodchenko. Casting of Oxide-Pulse-Portal, Alloys in the Protective Atmosphere Under Vacuum 30

Rubtsov, Yu. I., I.Y. Balashov, M.I. Rodchenko, and Yu. I. Zinov'ev. The Effect of Melting and Casting in Vacuum and Protective Atmosphere on the Properties of Titanium Carbides 39

Lobachevskij, B.V., and A.M. Samarin. Vacuum Melting of Stainless Steel 45

Philippovskij, R.M. The Effect of Vacuum Melting on the Quality of 12Kh17A Steel 53

PART II. MELTING OF STEEL AND ALLOYS IN VACUUM ARC FURNACES
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Bel'tser, S.Z., D.S. Larionova, A.I. Larionov, and A.S. Shara. Investigation of the Properties of Ball-Bearing Steel Melting in a Vacuum Arc Furnace 72

Johnsson, E.V. Vacuum Arc Melting 76

Petlin, I.A., and E.I. Serebrjakova. Melting of Stainless Steel in Vacuum Arc Furnaces 79

Akpol'skij. Properties of Alloys Melted in Vacuum 83

Serebrikov, P. Ia. Production of Low-Carbon Ferrite by Blooming Under Vacuum 88

Gol'd, P.V., and G.P. Sverdlov. Melting of the Reduction of Niobium Pentoxide by Carbon in Vacuum 92

PART III. REDUCTION PROCESSES IN VACUUM
Pentoxide by Carbon in Vacuum

Morozov, G.I. Vacuum-Thermal Reduction of Oxides of the Refractory Metals by Carbon [G.I. Morozov, G.V. Sazanov, Ya.M. Lipkin, G.I. Teren'eva and others of the Department of Metallurgy of Rare Metals of the Moscow Institute of Ferrous Metallurgy 1 solo] (Moscow Institute of Ferrous Metals and Gold) conduct and investigations on which this article is based] 107

Rabk, G. [Polish People's Republic] Institute of Free Metallurgy in Gliwice. Desulfurization of Ferrochrome in Vacuum 115

Glinskij. Desulfurization of Ferrochrome in Vacuum 124

PANASYUK, I.O., kand. tekhn. nauk; STROYEV, A.S., kand. tekhn. nauk,
retsenzont; SHCHIL'TSEV, A.N., red.; ARTAMONOVA, V.S.,
tekhn. red.

[Chromium and its alloys; review of foreign and some Russian
publications issued during 1950-1960]Khrom i ego splavy; obzor
zarubezhnoi i nekotoroi otechestvennoi literatury za 1950-
1960 gg.[n.p.] 1961. 39 p. (MIRA 15:12)

1. Moscow, Vsesoyuznyy nauchno-issledovatel'skiy institut
aviatsionnykh materialov.

(Bibliography--Chromium)

ZAKHAROVA, Galina Vasil'yevna, kand. tekim. nauk; POPOV, Ivan Alekseyevich, kand. tekhn. nauk; ZHOROVA, Liliana Pavlovna; FEDIN, Boris Vladimirovich; Prinimali uchastiye: MUKHINA, Z.S., zasl. deyatel' nauki i tekhn. RSFSR; POPOVA, I.A., zasl. deyatel' nauki i tekhn. RSFSR; YEGOROVA, N.D., zasl. deyatel' nauki i tekhn. RSFSR; NIKITINA, Ye.I., zasl. deyatel' nauki i tekhn. RSFSR; ZHEMCHUZHNAIA, Ye.A., zasl. deyatel' nauki i tekhn. RSFSR; ZHABINA, V.A.; SAVITSKIY, Ye.M., red.; STROYEV, A.S., red.; ARKHANGEL'SKAYA, M.S., red. izd-va; KARASEV, A.I., tekhn. red.

[Niobium and its alloys] Niobii i ego splavy. By G.V.Zakharova i dr. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1961. 368 p. (MIRA 14:12)
(Niobium)

STROYEV, A.Ye. (Konotop, Sumskoy obl.)

Effect of surgical treatment on the prothrombin-forming function of
the liver in cases of peptic ulcer and stomach cancer. Vrach.delo
no.1:1297-1300 D '58. (MIRA 12:3)

1. Katedra obshchey khirurgii pediatricheskogo i sanitarno-gigiyeni-
cheskogo fakul'teta (zav. - prof. M.M. Levin) Khar'kovskogo meditsin-
skogo instituta i eksperimental'nyy otdel (rukoveditel' - st. nauchn.
sotrudnik R.M. Glants) Ukrainskogo nauchno-issledovatel'skogo institu-
ta perelivaniya krovi i neotlozhnoy pomoshchi.

(SROMACH--CANCER) (PEPTIC ULCER) (LIVER)

STROEV, A.Ye., Cand Med Sci -- (diss) "Effect of surgical treatment
of the prothrombin function of the liver in patients with ulcers
and cancer of the stomach." Khar'kov-Konotop, 1959, 14 pp
(Khar'kov State Med Inst) 20 copies (KL, 36-59, 117)

- 70 -

GORBACHEV, S.S., inzh.; KHANIN, Ye.M., inzh.; MOROZOV, N.F., inzh.;
RABINOVICH, Ye.M., inzh.; STROYEV, A.Ye., inzh.; FEL'MAN, Ya.M.,
inzh.; DOLGIKH, V.N., inzh.; ROGACHEV, S.A., inzh.; YAKUSHEV, A.A.

Dismountable plant for making and assembling house made of
large aerated concrete blocks. Rats.i izobr.predl.v stroi.
no.12:11-18 '59. (MIRA 13:5)

1. Glavnnyy inzhener Konstruktorskogo byuro po zhelezobetonomu
Glavmosoblastrostroymaterialov pri Mosobispolkome (for Yakushev).
2. Konstruktorskoye byuro po zhelezobetonomu Glavmosoblastroy-
materialov, Moskva, D'yakov per., d.4 (for all).
(Lightweight concrete) (Concrete blocks)

stroyev, I. I.

USSR/ Engineering - Metal working

Card 1/1 Pub. 103 - 17/22

Authors : Stroyev, I. I., and Nozik, Z. S.

Title : Working of components having large-radius cylindrical surfaces

Periodical : Stan. i instr. 6, page 34, June 1955

Abstract : A newly introduced method of working components having large-diameter cylindrical surfaces, is described. The milling of the above mentioned components is performed on a vertical milling machine using high-speed face milling cutters with a diameter of 75-300 mm. Drawings.

Institution :

Submitted :

AUTHORS: Nozik, Z.S., and Stroyev, I.N.

117-58-7-4/25

TITLE: Lapping Machine (Pritirochnyy stanok)

PERIODICAL: mashinostroitel', 1958, Nr 7, pp 15-16 (USSR)

ABSTRACT: The described machine is a special semi-automatic lapping machine for flat surfaces of parts like valves or faucet bodies. As can be seen in the photograph (Figure 1), the 8 holding devices are provided with weights pressing the work against the lapping disc. The disc rotates at 6 rpm and simultaneous 54 oscillating movements per minute assuring good lapping quality at a production rate of 80 parts per hour. There is 1 photo and 1 diagram.

1. Lapping machines—Characteristics

Card 1/1

STROYEV, K.F.

Pedagogical activities of N.M.Przheval'skii. Geog.v shkole no.2:
26-28 Mr-Ap '54. (MLRA 7:2)
(Przheval'skii, Nikolai Mikhailovich, 1839-1888)

~~STROYEV, K.F.~~

BARAIISKIY, N.N.; DOMETTI, A.A.; KALININ, F.P.; KONYAKHINA, O.I.;
PREOBRAZHENSKIY, A.I.; RAUSH, V.A.; SAUSHKIN, Yu.G.;
~~STROYEV, K.F.; TEREKHOV, P.G.~~

In illustrious memory of A.S.Barkov. Geog.v shkole no.2:61
Mr-Ap '54. (MLRA 7:2)
(Barkov, Aleksandr Sergeevich, 1873-1954)

STROYEV, K.F.

Twentieth Congress of the Communist Party of the Soviet Union and
problems of geography teaching. Geog. v shkole 19 no.3:1-5 My-Je
'56. (Geography, Economic) (MLRA 9:9)

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621.3
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STROYEV, KONSTANTIN FEDOSEYEVICH

FIZICHESKAYA GEOGRAFIYA SSSR; UCHEBNIK Dlya 7 KLASSEN SREDNEY SHKOLOV (PHYSICAL GEOGRAPHY OF THE USSR) MOSKVA,
UCHPEDGIZ, 1957.

223 P. ILLUS., DIAGRS., MAPS,
TABLES.

STROYEV, K.F.

Using the textbook "Physical geography of the U.S.S.R." in
the seventh grade. Geog.v shkole 20 no.4:22-24 Jl-Ag '57.
(MIRA 10:7)

(Physical geography--Study and teaching)

STROYEV, K.F.

Activity of the School Geography Section of the Moscow branch of
the Geographical Society of the U.S.S.R. Vop. geog. no. 40:219-222
'57. (MLRA 10:8)

(Geography--Study and teaching)

STROYEV, Konstantin Fedoseyevich.; VASIL'YEVA, O.S.. red.; ZAYTSEVA, K.F.,
red. kart.; MAKHOVA, N.N., tekhn. red.

[Physical geography of the S.S.S.R.; textbook for the seventh grade
in secondary schools] Fizicheskaya geografia SSSR; uchebnik dlia
7 klassa srednei shkoly. Izd. 2. Moskva, Gos. uchebno-pedagog. izd-vo
M-va prosv. RSFSR, 1958. 223 p. [Maps to accompany the manual] Karty
k uchebniku. 1958. 22 p.
(Physical geography)

STROYEV, K.F.

Books on the Union Republics and large regions of the country.
Geog.v shkole 22 no.6:88-90 N-D '59. (MIRA 13:4)
(Russia--Economic conditions)

STROYEV, Konstantin Fedoseyevich; KIRYAKOV, Yu.F., red.; PIPA, L.D.,
red. kart; GORBUNOVA, N.M. [Horbunova, N.M.], tekhn. red.

[Geography of the U.S.S.R.; textbook for the seventh and
eighth grades of the eight-year school] Geografiia SRSR;
pidruchnyk dlia 7-8 klasiv vos'myrichnoi shkoly. Kyiv,
Derzh. uchbovo-pedagog. vyd-vo "Radians'ka shkola," 1961. 282 p.
(MIRA 15:3)

(Geography)

DOMETTI, A.A.; ZIMINA, A.M.; KALININ, F.P.; LAKTIONOVA, P.I.; MOROSHKINA, O.I.;
MYASISHCHEVA, Ye.I.; NECHAYEVA, Yu.A.; PREOBRAZHENSKIY, A.I.; RUSH,
V.A.; RYNDIN, A.A.; SAUCHKIN, Yu.G.; STROYEV, K.F.; TEREKHOV, P.G.
[deceased]; FREYKIN, Z.G.; SHESTAI OV, V.N.

Nikolai Nikolaevich Baranskii's 80th birthday. Geog. v shkole 2⁴
(MIRA 14:8)
no.4:7-8 Jl-Ag '61.
(Baranskii, Nikolai Nikolaevich, 1881)

STROYEV, K.F.

Geography of U.S.S.R. Reviewed by K.F. Stroev. Geog. v shkole 25
no. 2:24-27 Mr-Ap '62. (MIRA 15:2)
(Geography--Study and teaching)

STROYEV, K.F.

Use of local material in the teaching of geography. Geog. v
shkole 26 no.3:37-43 My-Je '63. (MIRA 16:6)

(Geography--Study and teaching)

MAKSAKOVSKIY, V.P., STROYEV, K.F.; GRIN, M.F., KIBAL'CHICH, O.A.; MASHBITS,
Ya.G.; ROZIN, M.S.

Nikolai Pavlovich Nikitin; on his 70th birthday. Izv.Vses.geog.ob-va
(MIRA 16:8)
95 no.3:270 My-Je '63.
(Nikitin, Nikolai Pavlovich, 1893-)

SOKOLOV, V.M. Prinimal uchastiye NYSNETSKAYA, Ye.I.; SHCHERBINA, V., t.l.,
red.; BASHLAVINA, G.N., red.; BIBIK, A.Ye., red.;
ZASLAVSKIY, I.I., red.; KONDRAK'YEV, B.A., red.; NYASISHCHEVA,
Ye.I., red.; SULOV'YEV, A. I., red.; STROGACHEV, K.F., red.;
SCHASTNEV, P.N., red.; TANANKOVA, A.T., red.; TEREKHOV, N.M.,
red.; LOBZOVA, N.A., red.

[Atlas of Moscow Province] Atlas Moskovskoi oblasti. Moskva,
1964. 12 p. (MIA 18:3)

I. Russia (1923- U.S.S.R.) Glavnoye upravleniye geodezii i
kartografii.

STRUKTURA V

STRUKTURA V

Prebovaniia taktiki k konstruktsii istrebitelia. (Tekhnika vospuschnogo flota, 1940, no. 12, . 14-25 and 1941, no. 3/4, p. 1-13)
Title tr.: Requirements for fighter design imposed by tactical
considerations.
(Cf. Nikolaev, Iu. P., "Requirements for fighter design imposed
by tactical considerations.")

TS504.Th 1940

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of
Gen. repr., 1954.

IGNAT'YEV, S.P.; PLONSKIY, V., redaktor; STROYEV, M., general-mayor
aviatsii, konsul'tant; TYSHEVICH, Z., tekhnicheskiy redaktor.

[The strength of our wings] Sila nashikh kryl'ev. [Moskva], Izd-vo
TsK VLKSM "Molodaia gvardia," 1951. 100 p. (MLRA 8:5)
(Russia -- Air Force)

STROYEV, M.P., gvardii general-mayor aviatsii v otstavke.

Discussions with V.I. Lenin on the development of Soviet aviation.
Vest. Vozd. Pl. 39 no.4:75-78 Ap '57. (MLRA 10:9)

(Lenin, Vladimir Il'ich, 1870-1924)
(Russia--Air force--History)

86-5-14/24

AUTHORS: Stroyev, M. P., Guards Maj./Gen., Air Force (Ret.), and
Lipitskiy, S. V., Lt. Col., Candidate of Historical Sciences

TITLE: Combat Activities of the Soviet Air Forces on the Eastern Front in 1918-1919 (Boyevyye deystviya sovetskoy aviatsii na Vostochnom fronte v 1918-1919 gg.)

PERIODICAL: Vestnik Vozdushnogo Flota, 1957, Nr 5, pp. 72-78 (USSR)

ABSTRACT: The article is an attempt to convey the idea that, in the operations against the troops of Admiral Kolchak, the Soviet commanders (among them M. V. Frunze) employed their air forces in almost all the types of missions which may be assigned to modern aircraft. The authors examine all phases of the operations, one by one. During the Red offensive against Kazan' and the subsequent pursuit of the retreating White troops (August-September 1918), the Soviet air forces are said to have been used first, in bombing raids against the enemy establishments in the city, then in the interdictory raids aimed chiefly at the Whites' river communications, next in direct support of the

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Combat Activities of the Soviet Air Forces on the Eastern Front in
1918-1919 (Cont.)

attacking ground troops, and finally in reconnaissance and liaison missions and in air attacks on the retreating columns. The authors note that enemy aircraft made no attempt to oppose the actions of the Red air forces. During the fall campaign around Perm' (now Molotov), notwithstanding the difficult weather conditions, the general pattern of the Red air force operations assertedly remained unchanged, with the above indicated list of missions lengthened by the addition of missions of aerial photographic reconnaissance. The use of captive balloons is also mentioned. The outline of the spring 1919 successes of the Kolchak armies (culminating in the capture of the city of Ufa) is preceded by an enumeration of the reinforcements the White air forces received from abroad, but the disadvantages of the Reds are not directly ascribed to the resulting change in the relationship of forces. The activity of the Red air forces is said to have been limited chiefly by an acute shortage of fuel. The authors tell of no air combats, but relate in some detail a simultaneous attack by 11 Red planes against a concentration of the enemy's ground troops. With respect

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Combat Activities of the Soviet Air Forces on the Eastern Front in
1918-1919 (Cont.)

to the participation of the Red air forces in the May-June 1919 defensive operations of the Soviet armies in the Southern Urals, the authors dwell somewhat on the role played by Red aircraft in maintaining liaison with the besieged city of Ural'sk. In the summer of 1919, a large part of the Red air forces was moved from the Eastern to the Southern front. Therefore, according to the authors, the only missions fulfilled by the Red air forces during the final Soviet offensive in the Urals, and during the pursuit of Kolchak's defeated armies in Western Siberia, were liaison and reconnaissance missions. The authors conclude the article by noting that, in the conditions of civil war, the effects produced by dropping propaganda leaflets from Red planes were significant. The factual information given by the authors and the figures cited in the text of the article stress the small scale of

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86-5-14/24

Combat Activities of the Soviet Air Forces on the Eastern Front in
1918-1919 (Cont.)

the operations described and the difficulties in the way
of organization with which Soviet commanders had to con-
tend. There are two Slavic references.

AVAILABLE: Library of Congress

Card 4/4

85-58-1-12/28

AUTHOR: Stryev, Mikhail Pavlovich, Guards Major General of Aviation, Retired

TITLE: Red Aviation Units of the South-West Front (Krasnyye aviaotryady Yugo-Zapadnogo fronta)

PERIODICAL: Kryl'ya rodiny, 1958, Nr 1, pp 13-15 (USSR)

ABSTRACT: The author relates events that took place during the Civil War, in which he participated. His military and teaching career are described in a biographical sketch contained in an insert. There is one photograph of the author.

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Card 1/1

STROYEV, M., gvardii general-mayor aviatsii v otstavke

Un forgettable meetings. Kryl.rod. 11 no.4:3-4 Ap '60.
(MIREA 13:6)
(Lenin , Vladimir Il'ich, 1870-1917)
(Russia--Air force)

STRONOV, N.Y.

Practices in science and technology propaganda of the All-Union
Research Institute for Textile and Light Machinery Manufacturing.
NTI no.6:15-16 '64. (MIA 17:9)

POPOV, I.M.; STROYEV, N.S.

Sickness rate among the athletes of Smolensk in 1960 [study]
GIDUV no.35: 93-102'62. (LIMA 16:6)
(SMOLENSK—SPORTS MEDICINE)

TSUKERNIK, V.B., mladshiy nauchnyy sotrudnik; FHOLOV, A.I., kand.tekhn.nuak;
STROYEV, P.A., starshiy inzhener

Structure of the Pobeda ice island based on geophysical data. Inform.
biul. Sov. antark eksp. no.37:29-33 '62. (MIRA 16:4)

1. Institut fiziki Zemli AN SSSR i Gosudarstvennyy astronomicheskiy
institut. (Shackleton ice shelf region—Geophysics—Observations)

L 16896-65 EWT(1)/EWG(v)
ACCESSION NR: AR4044502

Po-4/Pe-5/Pq-4/Pg-4 GW
S/0270/64/000/006/0030/003b

SOURCE: Ref. zh. Geodeziya. Otd. vy*p., Abs. 6.52.205

AUTHOR: Gladun, V.A., Marchuk, G.D., Fanteleyev, V.I., Stroyev, P.A.

TITLE: Gravimetric investigations in the region of the Kurile-Kamchatka trench in the northwestern part of the Pacific Ocean

CITED SOURCE: Sb. Morsk. gravimet. issledovaniya. Vy*p. 2. M., Mosk. un-t, 1963,
77-85

TOPIC TAGS: gravimetry, gravimetric survey, sea gravimeter, deep seismic sounding,
Faye anomaly

TRANSLATION: In accordance with the plan for Soviet investigations under the International Geophysical Year program, the Tikhookeanskaya kompleksnaya geologo-geofizicheskaya ekspeditsiya (Pacific Ocean Complex Geological-Geophysical Expedition) was organized for a study of the Kurile-Kamchatka transition zone from the Asian continent to the Pacific Ocean. The expedition included three detachments of the Gosudarstvennyy astronomicheskiy institut imeni P.K. Shternberga (State Astronomical Institute) and the Vsesoyuznyy nauchno-issledovatel'skiy institut Geofiziki (All-Union Scientific

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ACCESSION NR: AR4044502

Research Institute of Geophysics). In 1958 these detachments carried out gravimetric determinations in the investigated area along deep seismic sounding profiles and along three additional profiles. The survey was made with a four-pendulum sea gravimeter developed by the Tsentral'ny*y nauchno-issledovatel'skiy institut geodezii, aerofotos" yemki i kartografii (Central Scientific Research Institute of Geodesy, Aerial Mapping and Cartography) and 2 damped sea gravimeters designed at the All-Union Scientific Research Institute of Geophysics. At the same time, tests were made of a model of the SGP-2 string gravimeter developed at the All-Union Scientific Research Institute of Geophysics. The authors describe a method for gravimetric work at sea and office analysis of the measurement results and give an evaluation of accuracy. On one survey line (for the majority of the gravimetric stations), the mean square error of a Faye anomaly was ± 3.5 mgal; on the second line it was ± 11 mgal. The mean square error of one gravity determination by damped gravimeters, on the basis of convergence of repeated observations, was ± 4.5 mgal, on the basis of inner convergence of two gravimeters it was ± 3.1 mgal; and on the basis of convergence between gravimeters and pendulums it was ± 5.0 mgal. The mean value of drift of the gravimeter null point along the survey lines fell in the range ± 2 mgal/day. Bibliography with 9 items. P. Shokin.

SUB CODE: ES

ENCL: 00

Card 2/2

L 16894-65 EWT(1)/EWG(v)/ Po-4/Pe-5/Pq-4/Pg-4 AFMDC/AFML/ASD(a)-5/SSD/BSD/AFTC(a)/
ACCESSION NR: AR4044504 ESD(dp) GW S/0270/64/000/006/0031/0031

SOURCE: Ref. zh. Geodeziya. Otd. vy*p., Abs. 6.52.208

AUTHOR: Panteleyev, V. L., Stroyev, P. A.

TITLE: Recording of vertical accelerations with a string gravimeter

CITED SOURCE: Sb. Morsk. gravimetr. issledovaniya. Vy*p. 2. M., Mosk. un-t, 1963,
86-92

TOPIC TAGS: gravimeter, string gravimeter, gravity survey, disturbing acceleration,
accelerometer, string accelerometer

TRANSLATION: The results of tests of a model of a string gravimeter in 1958 by the
Tikhookeanskaya kompleksnaya ekspeditsiya (Pacific Ocean Complex Expedition) (ref.
6.52.205) were used to investigate the possibility of using a string gravimeter for re-
cording disturbing vertical accelerations. It is shown that the records of oscillations of
the string gravimeter can be used to obtain not only the observed value g, but also the
correction for disturbing vertical accelerations, which is identical to the correction
obtained by Brown for pendulum determinations of gravity:

$$\Delta g = 1/8 \frac{a^2}{g}$$

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ACCESSION NR: AR4044504

where a is the amplitude of vertical acceleration. The mean square value of the amplitude a is determined using a nomogram by means of numerical differentiation of the curve of the photographic record of the phase of oscillation of the string at time intervals of 1-2 seconds, which are several times less than the period of the disturbing accelerations. It is noted that the design of the string gravimeter can be developed in the form of a string accelerometer, specially designed for the recording of disturbing vertical accelerations in an unlimited range. The string gravimeter can be used for the remote control of a gravimeter in movement. Work on the development of the string gravimeter and string accelerometer is being done at the Vsesoyuznyy nauchno-issledovatel'skiy institut Geofiziki (All-Union Scientific Research Institute of Geophysics) and at the Institut fiziki Zemli AN SSSR (Institute of Physics of the Earth, AN SSSR), where they are in the stage of laboratory testing. P. Shokin.

SUB CODE: ES

ENCL: 00

Card 2/2

L 46947-66 EXP/10 GD/RM
ACC NR: AT6028021

SOURCE CODE: UR/0000/63/000/000/0093/0104

AUTHOR: Stroyev, P. A.

ORG: none

25
E+1

TITLE: Testing a prototype string gravimeter¹⁰

SOURCE: Moscow. Universitet. Astronomicheskiy institut. Geologicheskiy fakul'tet. Morskiye gravimetricheskiye issledovaniya; sbornik statey, no. 2, 1963, 93-104

TOPIC TAGS: gravimeter, research ship instrumentation / SGP-2 gravimeter, oceanographic instrument,

ABSTRACT: The author briefly reviews the development of the SGP-2 string gravimeter (third modification), its testing in the Pacific in July 1958, and its operating principles. The observation technique is outlined briefly and, the processing of results is systematically presented according to corrections for standard frequency deviation, chronometer rate, vertical vibration, barometric pressure (used only because the instrument lost its hermetic integrity during transport), and vertical accelerations. During the tests, 30 points were determined with the prototype string gravimeter, 28 of which were also measured with a pendulum gravimeter for comparison. It is concluded that the

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APPROVED FOR RELEASE: 08/26/2000

L 46947-66
ACC NR: AT6028021

CIA-RDP86-00513R001653610007-2

string gravimeter accuracy of ± 18 mgals is low and probably the result of loss of vacuum and poor instrument-system stabilization. The result makes it very promising for use on long cruises. It is stated that the change from tubes to semiconductor triodes proved well worth while as the gravimeter and weight of the oscillator feed was reduced size and weight. The quartz-oscillator and made the oscillator feed simpler and stable. The quartz-oscillator feed was so stable that gravity determination errors due to deviation of the oscillator feed was so small that the measurements themselves. Orig. art. has: [LB]

4 figures, 3 tables, and 11 formulas.
SUB CODE: 08/ SUBM DATE: 22Nov63/ ORIG REF: 003

Card 2/2 afs

TSUKERNIK, V.B.; FROLOV, A.I.; STROYEV, P.A.

Seismic and grametric studies in the West Shelf Ice in Antarctica.
Izv. AN SSSR. Ser. geofiz. no.6:907-921 Je '63. (MIRA 16:7)

1. Institut fiziki Zemli AN SSSR i Gosudarstvennyy astronomicheskiy
institut imeni P.K.Shternberga.
(West shelf ice--Seismic prospecting)
(West shelf ice--Gravity prospecting)

FROLOV, A.I.; STROYEV, P.A.

Practice of determining gravity at sea with damped gravimeters.
Prikl. geofiz. no.37:160-168 '63. (MIRA 16:10)

TSUKERNIK, V.B., mladshiy nauchnyy sotrudnik; FROLOV, A.I., kand. tekhn.
nauk; STROYEV, P.A., starshiy inzh.

Using seismic and gravimetric methods to study the sub-ice relief
of the West Shelf Ice. Inform. biul. Sov. antark. eksp. no.40:
19-24 '63. (MIRA 16:7)

1. Institut fiziki Zemli AN SSSR i Gosudarstvennyy astronomi-
cheskiy institut.

(West Shelf Ice--Land forms)
(Prospecting--Geophysical methods)

STROYEV, P.A., mladshiy nauchnyy sotrudnik

Methods of gravimetric measurements on the sixth voyage of the diesel-electric motorship "Ob'." Inform.biul. Sov.antark.eks no.43:37-40 '63.
(MIRA 17:1)

1. Shestaya morskaya ekspeditsiya.

GLADUN, V.A.; STROYEV, P.A.; USHAKOV, S.A.; FRELLOV, A.I.

Geophysical studies of the earth's crust in the transition zone from Antarctica to the Indian Ocean in the area between 55° and 100°E. Dokl. AN SSSR 153 no.2:427-428 N '63. (MIRA 16:12)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
Predstavлено академиком D.I.Sherbakovym.

GLADUN, V.A.; DEMENITSKAYA, R.M.; STROYEV, P.A.; USHAKOV, S.A.;
FROLOV, A.I.

Some results of geophysical studies of the crustal structure
in Antarctica to the north of Novolazarev Station. Dokl. AN
SSSR 153 no.6:1398-1399 D '63. (MIRA 17:1)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova
i Nauchno-issledovatel'skiy institut geologii Arktiki. Pred-
stavлено akademikom D.I. Shcherbakovym.

STROIEV, P.A., starshiy inzhener; PROLOV, A.I., kand.tekhn.nauk; TSUKERNIK, V.B.,
mladshiy nauchnyy sotrudnik

Structure of the relief under the ice in the Mirnyy region. Inform.
biul. Sov. antark.eksp. no.49:24-28 '64.

(MIRA 18:5)
I. Gosudarstvennyy astronomicheskiy Institut imeni Shternberga,
Moskva.

L 16149-65 EWT(1) Pa-4 ESD(t)/SSD/AFWL/AFETR GW
ACCESSION NR: AP4045632 S/0020/64/158/002/C345/0347

AUTHOR: Gladun, V. A.; Isayev, Ye. N.; Koryakin, Ye. D.; Stroyev, P. A.;
Ushakov, S. A.; Frolov, A. I.

TITLE: Results of geophysical investigations of the earth crust of the Antarctic
in the Enderby Land region

SOURCE: AN SSSR. Doklady*, v. 158, no. 2, 1964, 345-347

TOPIC TAGS: isostasy, earth crust, Antarctic, Enderby Land, geology, geophysics

ABSTRACT: Antarctic is, on the whole, in a state of isostasy inspite of the excess of the ice load. This is, however, not true with respect to certain sections of morphological structure. One of these sections is the Enderby Land where the Soviet Antarctic Expedition conducted in 1961-1962 geological and geophysical investigations of the earth crust. The map of the gravitational anomaly was prepared, and the depth of the Mohurovicic surfaces determined. The measurements indicate that the young block mountains in the west of Enderby Land are far from

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L 16149-65
ACCESSION NR: AP4045632

3

isostasy. The authors are grateful to R. M. Demenitskaya for discussions.
Orig. art. has: 3 figures

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova
(Moscow State University); Nauchno-issledovatel'skiy institut geologii Arktiki
(Scientific-Research Institute of the Geology of the Arctic)

SUBMITTED: 29Feb64 ENCL: 00

SUB CODE: ES NO REF SOV: 006 OTHER: 001

Card2/2

Макаров, А.А.; Муравьев, А.И.; Терентьев, Н.В.

Subglacial topographic structure of the region of the Antarctic
station Mirnyi according to geophysical data. Izv. AN SSSR. Fiz.
zem. no.1:121-126 '65. (MIRA 18:5)

1. Gosudarstvennyy astronomicheskiy institut imeni Shternberga.

L 5244-66 EWT(1) GW

ACC NR: AP5021211

SOURCE CODE: UR/0213/65/005/004/0684/0691

AUTHOR: Stroyev, P. A.; Gaynanov, A. G.

44.55

44.55

36

BB

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

44.55

TITLE: The structure of the Earth's crust in the Indian Ocean from geophysical investigation data

12, 44.55

12, 55

SOURCE: Okeanologiya, v. 5, no. 4, 1965, 684-691

TOPIC TAGS: ocean floor topography, oceanographic expedition, gravimetric analysis, earth crust/Indian Ocean

ABSTRACT: The structure of the Earth's crust under the Indian Ocean is not well known. The present article: 1) gives a comprehensive survey, with 29 references, of geophysical research carried out in the Indian Ocean from the first studies of Vening-Meiness in 1923 to the present; 2, presents a comprehensive discussion of the newest results obtained during the IGY by British, US, and Soviet expeditions; 3) establishes, on the basis of these recent data, the Capetown-Queen Maud Land and Ceylon-Shackleton Ice Shelf profiles; and 4) presents the graphs showing the Fay and Bouguer anomalies as function of

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UDC: 550.311

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L 5244-66

ACC NR: AP5021211

the Indian Ocean depths. Orig. art. has: 2 formulas and 2 figures.

SUB CODE: ES / SUBM DATE: 19Jun64 / ORIG REF: 021 / OTHER REF: 008

OC
Card 2/2